CSCE 625 Programming Assignment 3 Report

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Honor Code On my honor, as an Aggie, I have neither given nor received any unauthorized aid on any portion of the academic work included in this assignment.

Usage To run the program in prolog, please follow the instructions below:

1. Switch to correct directory: `working_directory(CWD,` *source_folder*`).`
2. Load the program: `['path.pl'].`
3. Load the graph: `['graph.pl'].`
4. Perform query: `path(k, p, P).` or `path(a, e, P).`

Example For the graph below, the shortest path from `a` to `e` is `a->c->f->e`.

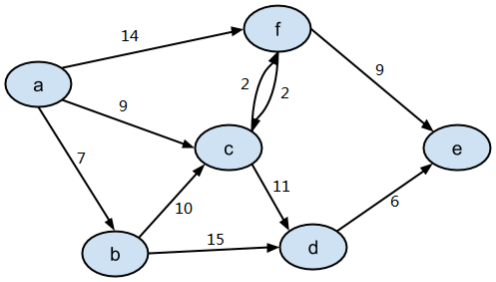

Figure 1: Graph example.

Following the instructions described above, the program will produce an output `P = [a, c, f, e].`.

Another rule `pathWithLength(a, b, P, L)` (`L` is the path length) is also included in the program to check if the path length computed by the program is correct.

Resources

1. *Simply Logic.* Peter Flach. https://www.cs.bris.ac.uk/$\sim$flach/SimplyLogical.html.
2. *Prolog tutorial.* J. R. Fisher. http://www.csupomona.edu/$\sim$jrfisher/www/prolog_tutorial/contents.html.
3. *SWI Prolog Manual.* http://www.swi-prolog.org/pldoc/doc_for?object=manual